

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

T NAMED INVENTOR

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/318,073 05/25/99 240 Т 1016.1112101 Γ **EXAMINER** MMC2/0131 GREGORY A BURNS ANDLIAR HONEYWELL INC **ART UNIT** PAPER NUMBER HONEYWELL PLAZA MN12-8251 P O BOX 524 2826 MINNEAPOLIS MN 55440-0524 **DATE MAILED:** 01/31/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

4 60- 0---

. •					
Office Action Summary		Application No.	Applicant(s)		
		09/318,073	ZHU ET AL.		
		Examiner	Art Unit		
		Leonardo Andujar	2826		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1)	Responsive to communication(s) filed on 06	November 2000 .			
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	nis action is non-final.			
3)	ince this application is in condition for allowance except for formal matters, prosecution as to the merits is losed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) 🛛 (Claim(s) <u>1-34</u> is/are pending in the application	n.			
4a) Of the above claim(s) 23-34 is/are withdrawn from consideration.					
5) 🗌 (5) Claim(s) is/are allowed.				
6)🛛 (6)⊠ Claim(s) <u>1,5,6 and 9-22</u> is/are rejected.				
7)⊠ Claim(s) <u>2,3,7 and 8</u> is/are objected to.					
8) 🗌 (Claims are subject to restriction and/o	r election requirement.			
Application Papers					
9)⊠ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>25 May 1999</u> is/are objected to by the Examiner.					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).					
Attachment(s)					
16) 🔲 Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	19) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)		

Art Unit: 2826

DETAILED ACTION

Election/Restriction

1. In response to the restriction requirement mailed on 10-3-00, Applicant has elected with traverse to prosecute the claims of Group I (claims 1-22). Applicant argues that the restriction requirement in incorrect because the Examiner has not shown that all of the claims of Group II are distinct from the claims of Group I. Specifically, claims 23-39 do not require the language concerning forming a trench in an insulating layer. While this is true, claims 23-29 require that the device be "formed on a common substrate". The device of claims 1-22 could be produce by forming the device on a composite substrate or on separate substrates. It is clear that the inventions of Group I and II are independent and/or distinct for the reasons given above and in the previous Office Action. Therefore the restriction requirement is made **FINAL**.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "magnetic field sensitive region" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Art Unit: 2826

The following title is suggested: Thin Film Memory Device Having Local and External Magnetic Shielding.

Claim Rejections - 35 USC § 112

4. Claims 5, 6 and 9-22 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 5, lines 3 "said magnetic field sensitive region" has no antecedent basis.

In claim 6, lines 3 "said magnetic field sensitive region" has no antecedent basis.

In claim 9 do not show clearly if the memory element is contained between the first and second magnetic material.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Schapira (3,623,032).

Schapira discloses a memory element comprising:

- a magnetic storage 10 having an upper surface and a lower surface;
- a first shielding having a soft magnetic material 18, positioned above the upper surface of the magnetic storage 10;

Art Unit: 2826

 a second shielding means having a soft magnetic material 18, positioned below the lower surface of the magnetic storage 10.

Allowable Subject Matter

6. Claims 2-4, 7 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kobayashi et al. (3,623,035) discloses structures and procedures similar to the instant invention.

Papers related to this application may be submitted directly to Art Unit 2826 by facsimile transmission. Papers should be faxed to Art Unit 2826 via the Art Unit 2826 Fax Center located in Crystal Plaza 4, room 4C23. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2826 Fax Center number is (703) 308-7722 or -7724. The Art Unit 2826 Fax Center is to be used only for papers related to Art Unit 2814 applications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Leonardo Andujar** at **(703) 308-0080** and between the hours of 9:00 AM to 5:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via Leonardo. Andujar@uspto.gov. If attempts to reach the examiner by telephone

Art Unit: 2826

are unsuccessful, the examiner's supervisor, Nathan Flynn, can be reached on (703) 308-6601.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Group 2800 Receptionist** at **(703)305-3900**

The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/295, 365/158,162, 172 and 173	01/2001
Other Documentation:	
Electronic Database(s): East (USPAT)	01/2001

Leonardo Andujar

Patent Examiner Art Unit 2826

LA 01/26**/**2001

Primary Examiner